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DATE MAILED: 09/10/2004

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/601,586	06/24/2003		Kenichi Ashida	325772032400	8085
25227	7590	09/10/2004		EXAM	INER
MORRISO	N & FOI	ERSTER LLP	GRAINGER, QUANA MASHELL		
1650 TYSO	NS BOUL	EVARD		ART UNIT	PAPER NUMBER
SUITE 300				ARTONI	TATER NOMBER
MCLEAN,	VA 2210	)2		2852	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/601,586	ASHIDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quana Grainger	2852				
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi  - If the period for reply specified above, its ess than thirty (30) d  - If NO period for reply is specified above, the maximum statute  - Failure to reply within the set or extended period for reply will  Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION.  17 CFR 1.136(a). In no event, however, may a repication.  ays, a reply within the statutory minimum of thirty ( by period will apply and will expire SIX (6) MONTH,  by statute, cause the application to become ABAN	ly be timely filed  30) days will be considered timely.  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	on .					
· _ ·	⊠ This action is non-final.					
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-21 is/are pending in the app 4a) Of the above claim(s) is/are s 5) ☐ Claim(s) 1-9 and 15-18 is/are allowed. 6) ☐ Claim(s) 10-12,14,19 and 21 is/are rejection 7) ☐ Claim(s) 13 and 20 is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.					
Application Papers						
9) The specification is objected to by the E	xaminer.					
10) The drawing(s) filed on is/are: a	)□ accepted or b)□ objected to by	the Examiner.				
Applicant may not request that any objection	• , ,	· ·				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by						
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim for a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority do:  2. ☐ Certified copies of the priority do:  3. ☐ Copies of the certified copies of the application from the International * See the attached detailed Office action for the second s	cuments have been received. cuments have been received in App the priority documents have been re Bureau (PCT Rule 17.2(a)).	olication No eceived in this National Stage				
Attachment(s)	_	,				
1) ⊠ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO	4) Interview Sun -948) Paper No(s)/N	nmary (PTO-413) Mail Date				
Paper No(s)/Mail Date	· —	mal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

### Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Information Disclosure Statement

2. The information disclosure statement filed 6-24-2003 has been considered.

### **Drawings**

3. The formal drawings are approved by the examiner.

#### Title

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 10-12, 14, 19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Domon et al. (JP07-140776A). The toner cartridge by Domon et al. comprises a developer storage container for storing a developer; a rotary conveyance body, arranged in said developer storage container, for carrying a developer in the storage container toward an exhaust port; and

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detection windows through which a light beam projected from a developer detector is input and output to detect the remaining state of the developer in the toner cartridge when the toner cartridge is mounted to a developing unit, wherein said detection windows are arranged such that the optical axis of the input and output light beam becomes parallel to a direction that said rotary conveyance body carries the developer. The toner cartridge can be attached to and detached from the developing unit. The toner cartridge is integrated with the developing unit. The toner cartridge can be attached to and detached from an image forming apparatus.

Domon et al. teaches an image forming apparatus comprising a toner cartridge for storing a developer, which comprises a rotary conveyance body for carrying the stored developer toward an exhaust port; an image carrier having a latent image formed on the surface and holding a developer image developed with the developer: a developing unit for developing the latent image formed on the surface of the image carrier; and a developer detector having a light beam projecting unit and a light beam receiving unit, for detecting the remaining state of the developer in said toner cartridge, wherein said toner cartridge has detection windows through which a light beam projected from said developer detector is input and output when the toner cartridge is mounted to the developing unit; and said detection windows are arranged such that the optical axis of the input and output light beam becomes parallel to a direction that said rotary conveyance body carries the developer on a projection plane when seen from the top or side of the toner cartridge.

## Allowable Subject Matter

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7. Claims 13 and 20 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

8. Claims 1-9 and 15-18 are allowed.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quana Grainger whose telephone number is 571-272-2135. The

examiner can normally be reached on weekdays between the hours of 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Arthur Grimley can be reached on 571-272-2136. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quana Grainger Primary Examiner

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